

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 7711A

This table lists the maximum allowable emission rates and all sources of air contaminants on the applicant's property covered by this permit. The emission rates shown are those derived from information submitted as part of the application for permit and are the maximum rates allowed for these facilities. Any proposed increase in emission rates may require an application for a modification of the facilities covered by this permit.

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lb/hr	TPY
STILLYARD OPERATION				
HTR3	T-1 Laminating Adhesive Bulk Storage Tank Heater Vent	NO _x	0.05	0.22
		SO ₂	0.01	0.01
		PM ₁₀	0.01	0.02
		CO	0.04	0.18
		VOC	0.01	0.01
HTR4	T-2 Laminating Adhesive Bulk Storage Tank Heater Vent	NO _x	0.05	0.22
		SO ₂	0.01	0.01
		PM ₁₀	0.01	0.02
		CO	0.04	0.18
		VOC	0.01	0.01
HTR5	Asphalt Heater for T-14 and T-15 Coating Asphalt Storage Tank and Coating Asphalt Loop Feed Tank	NO _x	0.10	0.43
		SO ₂	0.01	0.01
		PM ₁₀	0.01	0.03
		CO	0.08	0.36
		VOC	0.01	0.02
BLR5	Standby Boiler Vent	NO _x	3.73	0.90
		SO ₂	0.02	<0.01
		PM ₁₀	0.28	0.07
		CO	3.13	0.75
		VOC	0.20	0.05
8/8A	Direct-flame Incinerator Exhaust Stack/Incinerator Exhaust through Waste Heat Boiler Stack	NO _x	1.90	8.31
		SO ₂	29.35	128.55
		PM ₁₀	2.62	11.46
		CO	11.34	49.65

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		VOC	0.09	0.37
WHBLR1	Waste Heat Recovery Boiler, Natural Gas Burner Side	NO _x	0.47	2.06
		SO ₂	0.01	0.04
		PM ₁₀	0.11	0.48
		CO	1.24	5.43
		VOC	0.08	0.35

COMMON TO LINE 1 AND LINE 3

CFL/34	Coalescing Filter Mist Elimination Systems Stack (to control emissions from the Line 1 and Line 3 Asphalt Coaters) with ESP as backup	PM ₁₀	0.63	2.76
		VOC	5.76	25.23

LINE 1 OPERATION

1-1	Line 1 Stabilizer Storage and Heater Baghouse Stack	PM ₁₀	0.23	1.01
1-3	Line 1 Stabilizer Use Bin Baghouse Stack	PM ₁₀	0.03	0.13
1-4	Line 1 Surfacing Section Dust Collector No. 1 Stack	PM ₁₀	0.59	2.58
1-5	Line 1 Surfacing Section Dust Collector No. 2 Stack	PM ₁₀	0.59	2.58
1-6	Line 1 Surfacing Section Dust Collector No. 3 Stack	PM ₁₀	0.59	2.58
COOL1 (total 3 stks)	Line 1 Cooling Section	PM ₁₀	8.52	37.30
		VOC	1.65	7.23

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LINE 3 OPERATION

25	Sand Application Baghouse	PM ₁₀	1.50	6.57
26A	Stabilizer Storage Baghouse A	PM ₁₀	0.15	0.70
26B	Stabilizer Storage Baghouse B	PM ₁₀	0.29	1.26
27	Stabilizer Heater Baghouse	PM ₁₀	0.09	0.40
28	Asphalt Heater	NO _x	0.59	2.60
		SO ₂	<0.01	0.02
		PM ₁₀	0.04	0.20
		CO	0.50	2.20
		VOC	0.03	0.10
FUG1	Plant-wide Fugitive Emissions (4)	PM ₁₀	0.91	3.97
		VOC	0.43	1.88
COOL3 (total 3 stks)	Line 3 Cooling Section	PM ₁₀	6.74	29.52
		VOC	2.76	12.09
HTR6	Line 3 Stabilizer Thermal Fluid Heater Vent	NO _x	0.60	2.58
		SO ₂	0.01	0.02
		PM ₁₀	0.05	0.20
		CO	0.49	2.16
		VOC	0.03	0.14

- (1) Emission point identification - either specific equipment designation or emission point number from a plot plan.
- (2) Specific point source names. For fugitive sources, use an area name or fugitive source name.
- (3) NO_x - total oxides of nitrogen
SO₂ - sulfur dioxide
PM₁₀ - particulate matter equal to or less than 10 microns in diameter, including PM_{2.5}

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PM_{2.5} - particulate matter equal to or less than 2.5 microns in diameter

CO - carbon monoxide

VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1

(4) Fugitive emissions are an estimate only.

Dated: August 20, 2010